



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/282,748	03/31/1999	HYONG S. KIM	FORE-39	9050
7590	03/20/2006		EXAMINER	
ANEL M SCHWARTZ ONE STERLING PLAZA SUITE 304 201 N CRAIG STREET PITTSBURGH, PA 15213			TRAN, PHUC H	
		ART UNIT	PAPER NUMBER	
		2668		
		DATE MAILED: 03/20/2006		

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	09/282,748	KIM ET AL.	
	Examiner	Art Unit	
	PHUC H. TRAN	2668	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 17 February 2006.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-28,30 and 31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-28,30 and 31 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) Notice of References Cited (PTO-892)
- 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____.

- 4) Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
- 5) Notice of Informal Patent Application (PTO-152)
- 6) Other: _____.

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1-28 and 30-31 are rejected under 35 U.S.C. 102(e) as being anticipated by Ganmukhi et al. (U.S. Patent No. 5850399).

- With respect to claims 1, 3-6, 9-11, 13, and 18, Ganmukhi teaches an ATM communication system (Fig. 1) comprising:

a source, which produces traffic for connections having known traffic characteristics (CBR, VBR, ABR) and unknown traffic characteristics (UBR) with no parameter specified, with weighted priorities (UBR +), which has multiple weighted priorities (e.g. weight round robin with low and high), and without weighted priorities (UBR);

a network on which traffic travels, the source connected to the network, the source sends the traffic having known traffic characteristics and unknown traffic characteristics onto the network (output 100);

and a destination, which is connected to the network and receives the traffic having known traffic characteristics and unknown traffic characteristics (e.g. terminal at receiving end).

- With respect to claim 2, Ganmukhi discloses a switch connected to the network, which switches the traffic from the source to the destination (Ganmukhi explicitly fails to teach the

Art Unit: 2668

connection to the network, however it is inherently to person of ordinary skill in the art at the time of the invention was made to understand the communication system of Ganmukhi is connected to network for transferring information system, col. 4, line 17).

- With respect to claims 7, 16, & 22, Ganmukhi teaches the traffic known traffic characteristics is ABR, CBR, VBR or a combination of the same (Fig. 1).

- With respect to claims 8 & 20, Ganmukhi also discloses a signaling message that identifies to switches of the network the weight of each UBRw VC (call reception control circuit in Fig. 1).

- With respect to claims 12, 17, 19, 21, & 23-27, Ganmukhi teaches a switch for switching traffic on an ATM network from a source to a destination (Fig. 1) comprising:

a mechanism receives traffic for connections having unknown traffic characteristics (UBR in Fig. 1) with weighted priorities and without weighted priorities (UBR + & UBR);

a mechanism for transmitting the traffic for connections to the network, the transmitting mechanism connected to the receiving mechanism (it is inherently to person of ordinary skill in the art at the time of the invention to understand the system of Ganmukhi for transmitting data between terminals).

Ganmukhi also teaches a scheduler for scheduling when the connections having traffic with unknown characteristics having weighted priorities are to be transmitted to the network, the scheduler connected to the transmitting mechanism and the receiving mechanism by utilizing weighted rotational priority control (block 90 in Fig. 1).

- With respect to claims 14 & 15, Ganmukhi discloses including a memory for storing the connections, the memory connected to the receiving mechanism, the scheduler and the transmitting mechanism (e.g. buffer in Fig. 1).
- With respect to claims, 28 and 30-31, Ganmukhi teaches priority of connection is communicated to the switch during connection set-up from the source (Fig. 1 shows the classes and weight round robin at the source 15)

Response to Arguments

3. Applicant's arguments filed 2/17/2006 have been fully considered but they are not persuasive.

- Applicant's arguments that "Ganmukhi does not teach or suggest to provide any type of weighting for connections having unknown traffic characteristics with no parameters specified". Examiner respectfully disagrees. Ganmukhi teaches weight for UBR+ (see Fig. 1), that UBR+ is unknown traffic characteristics with no parameters specified.

Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to PHUC H. TRAN whose telephone number is (571) 272-3172. The examiner can normally be reached on M-F (8-4:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, CHI PHAM can be reached on (571) 272-3179. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Phuc Tran
Assistant Examiner
Art Unit 2664

P.t
March 15, 2006

Chi Pham
CHI PHAM
PERVISOY PATENT EXAMINER
3/16/06